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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,956	04/20/2004	John Man Kwong Kwan	358-001CIPC	7144
40.0.	7590 02/23/200 11TH & ASSOCIATES	•	EXAM	INER
3900 NEWPARK MALL ROAD, 3RD FLOOR			ARANI, TAGHI T	
NEWARK, CA	94560		ART UNIT	PAPER NUMBER
			2131	
				
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MO	NTHS	02/23/2007	PAP	PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)		
	10/828,956	KWAN, JOHN MAN KWONG		
Office Action Summary	Examiner	Art Unit		
	Taghi T. Arani	2131		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status		·		
Responsive to communication(s) filed on <u>04 Au</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers				
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 20 April 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 				
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 08/04/2005.	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te		

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DETAILED ACTION

1. Claims 1-19 have been examined and are pending

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 2-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 2-19 recites the limitation "The apparatus of claim 115", The apparatus of claim 119" and "The apparatus of claim 122" in the corresponding preambles. There is insufficient antecedent basis for the claims 115,119 and 122 in the claims.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-19 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 41-56 of U.S. Patent No. 6,792,535. Although the conflicting claims are not identical, they are not patentably distinct from each other because:

Claims 1-19 of the instant application are anticipated by patent claims 41-56 in that the claims 41-56 of the patent contain all the limitations of the instant application (see Claim-comparison table below). Claims 1-19 of the instant application therefore is not patentably distinct from the earlier patent claim and as such is unpatentable for obvious-type double patenting (In re Goodman (CAFC) 29 USPQ2d 2010 (12/3/1993)).

Claim	Application No.	Claim	Patent
No.	10/828,956	No.	6,792,535
1	An apparatus for encoding a mark	41	A system for encoding a mark into
	into digital data, comprising:		unencoded data to create an
			encoded data, comprising:
			at least one processor coupled
			with at least one memory storing
			an encoder as at least one program
	means for locating in the digital		comprising a target area locator
	data, using a predetermined		for locating at least two values in
	pattern, at least two values that		the unencoded data using a
	represents a flat area; and		predetermined pattern that

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represent a flat area; and

means for modifying the values in the flat area to encode a mark into the flat area;

wherein the means for locating in the digital data further comprises: means for calculating a variability for a selected portion of the digital data using the predetermined pattern; and

means for representing the flat area when the variability is less than a predetermined amount;

wherein the apparatus for encoding is part of a device receiving an unencoded data to create the digital data; and wherein the apparatus for

a marker for modifying at least
one of the values in the flat area
encoding the mark into the flat
area to create the encoded data;
wherein the target area locator
further performs: calculating a
variability for a selected portion of
the digital data using the
predetermined pattern; and

representing the flat area when the variability is less than a predetermined amount.

	encoding is part of the device using		
	the values in the flat area to create		
	an encoded data.		
2	The apparatus of claim 115,	51	The system of claim 41, wherein
•	wherein the predetermined pattern		the predetermined pattern is a
	is a regular pattern.		regular pattern.
3	The apparatus of claim 115,	52	The system of claim 41, wherein
	wherein the predetermined pattern		the predetermined pattern is an
	is an irregular pattern.		irregular pattern.
4	The apparatus of claim 115,	53	The system of claim 41, wherein
·	wherein the predetermined pattern		the predetermined pattern
	identifies a consecutive set of		identifies a consecutive set of
,	values.		values.
5	The apparatus of claim 115,	42	The system of claim 41, wherein
	wherein the means for modifying		the marker is further comprised
	the values further comprises:		of: the marker modifies at least
	means for modifying the values		one of the values according to a
	according to a recognizable		recognizable amount.
	according to a recognizable		i ccognizavie amount.

· · · · · · · · · · · · · · · · · · ·	amount.	<u> </u>	
	WALL WALL OF		
6	The apparatus of claim 119,	43	The system of claim 42, wherein
	wherein the means for modifying		the marker is further comprised
	wherein the means for mountying		
	the values further comprises:		of: the marker adds the
	means for adding the recognizable		recognizable amount to at least one
	amount to the values.		of the values.
7	The apparatus of claim 119,	44	The system of claim 42, wherein
7	wherein the means for modifying		the marker is further comprised
,	the values further comprises:		of: the marker subtracts the
	means for subtracting the	٠.	recognizable amount to at least one
	recognizable amount from the		of the values.
	values.		
:			
8	The apparatus of claim 119,	45	The system of claim 42, wherein
	further comprising the means for		the marker is further comprised
	computing the recognizable		of: the marker computes the
	amount includes: a means for		recognizable amount as a function
	calculating a function of the		of the variability in the flat area.
			of the variability in the flat area.
	variability in the flat area.		

9	The apparatus of claim 122,	46	The system of claim 45, wherein
·	wherein the means for computing		the marker is further comprised
	the recognizable amount further		of: the marker computes the
	comprises: means for computing		recognizable amount as a multiple
	the recognizable amount as a		of the variability in the flat area.
	multiple of the variability in the		
	flat area.		
10	The apparatus of claim 119,	47	The system of claim 42, wherein
	further comprising: means for		the marker modifies values in the
	modifying the values in the flat		flat area to provide at least one of
	area to provide at least one known		the known peaks in the flat area.
	peak in the flat area.		
	·		,
11	The apparatus of claim 115, wherein	48	The system of claim 41, wherein
	the means for modifying the values		the marker modifies multiple of
	further comprises: means for		the values in the digital data to
	modifying at least two of the values		represent a single mark value in
	in the digital data to represent a		the flat area.
	single mark value in the flat area.		
12	The apparatus of claim 115,	49	The system of claim 41, wherein

	further comprising: means for		the target area locator further
	locating in the digital data, using a		locates in the digital data using the
	predetermined pattern, at least two		predetermined pattern that
	values that represents a second flat		represents a second flat area; and
	area; and means for modifying the	·	wherein the marker further
	values in the second flat area to		modifies at least one of the values
	encode the mark into the second		in the second flat area to encode
	flat area.		the mark into the second flat area.
13	The apparatus of claim 115, further	50	The system of claim 42, at least one
	comprising: means for converting		of the processors coupled with at
	the format of the digital data.		least one of the memories storing at
14	The apparatus of claim 115, at least		least one program comprising a
	one of the means is implemented		format conversion engine for
	using a computer accessing a		converting the digital data to
	memory.	1.0	another format.
15	The apparatus of claim 115, wherein		
	the device is included in a computer		٠.
	receiving the unencoded data.		·
16	The apparatus of claim 115, wherein		
	the device communicates with a		
	processor within a computer to		
			<u> </u>

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	create the encoded data within the		·
,	computer.		
*1			·
17	The apparatus of claim 115,	54	The system of claim 41, wherein
	wherein the predetermined pattern		the predetermined pattern is one
	is one dimensional.		dimensional.
			·
18	The apparatus of claim 115,	55	The system of claim 41, wherein
	wherein the predetermined pattern		the predetermined pattern is two
	is two dimensional.		dimensional.
19	The method of claim 115, wherein	56	The system of claim 41, wherein
	the predetermined pattern is three	:	the predetermined pattern is three
	dimensional.		dimensional.

Conclusion

4. Prior arts made of record, not relied upon:

See the attached PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taghi T. Arani whose telephone number is (571) 272-3787. The examiner can normally be reached on 8:00-5:30 Mon-Fri.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Taghi T. Arani, Ph.D. Primary Examiner

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